



# 110 WATT 12V & 24V SOLAR PANEL

## Features:

- Extra heavy gauge aluminum frame, designed for ease of mounting and durability
- Industry leading quality, manufactured with advanced encapsulation process
- 40 highly efficient back-contact monocrystalline cells
- Engineered for off-grid applications with conversion efficiencies >20%
- 2 <sup>1/2</sup> square feet smaller than other manufacturers' 110 watt modules
- Junction box is rain tight and has four 1/2" conduit or cable fitting knock-outs

Electrical Specifications:	OGRE B110-J12	OGRE B110-J24
Max Power	110 Watts	110 Watts
Max Power Voltage	16.1 Vmp	32.2 Vmp
Max Power Current	6.84 Imp	5.30 Imp
Open Circuit Voltage	20.3 Voc	20.4 Voc
Short Circuit Current	5.64 Isc	3.42 Isc
Maximum System Voltage	70 V	70 V
Series Fuse Rating	14 A	9 A
<i>Temperature Co-Efficients</i>		
Power	-0.38%/C	-0.38%/C
Voltage	-58.7mV/C	-117.3mV/C
Current	7.1mA/C	3.5mA/C
Cell Efficiency	18.00%	18.00%
Number of Cells in Series	40	64
Cell Type	BC Mono	BC Mono
Number of Strings in Parallel	4	2
Max Power Tolerance	+/- 5%	+/- 5%

Mechanical Characteristics:		
Weight	23.8 lbs	23.8 lbs
Dimension	56.3 x21.5 in.	56.3 x21.5 in.
Thickness, including junction box	2.13 in.	2.13 in.
Frame-aluminum	>10µm anodized	>10µm anodized

## 25 Year Limited Warranty\*

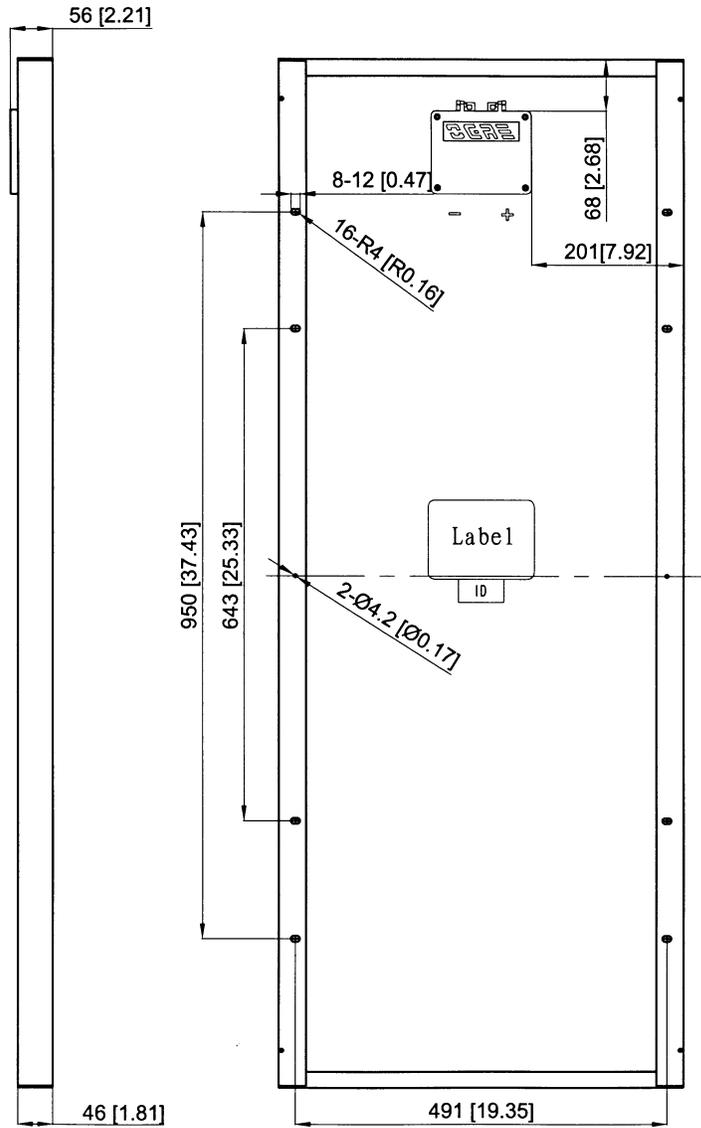
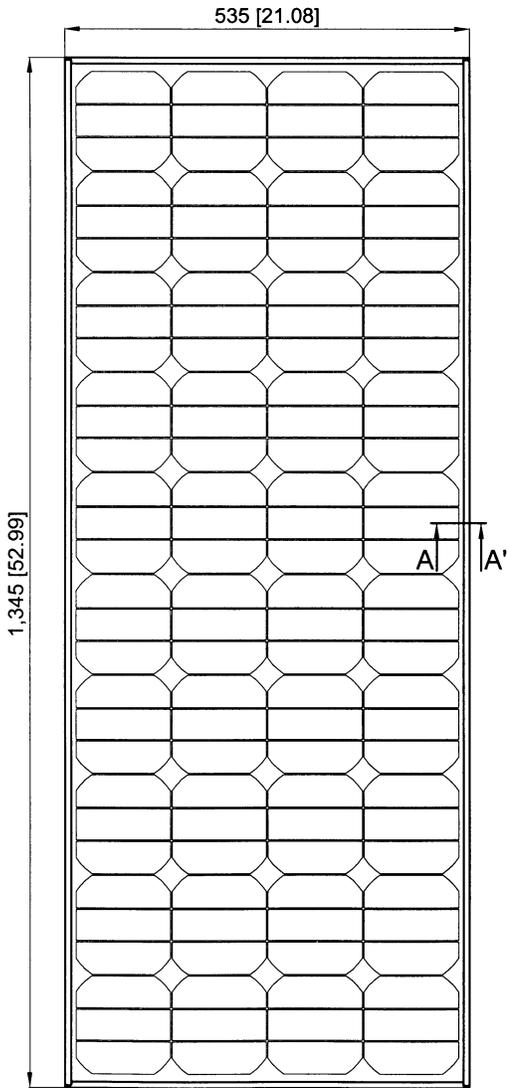
- 80% power output
- 10-year limited warranty of 90% power output
- 5-year limited warranty of materials and workmanship

\*Refer to OGRE's warranty document for terms and conditions

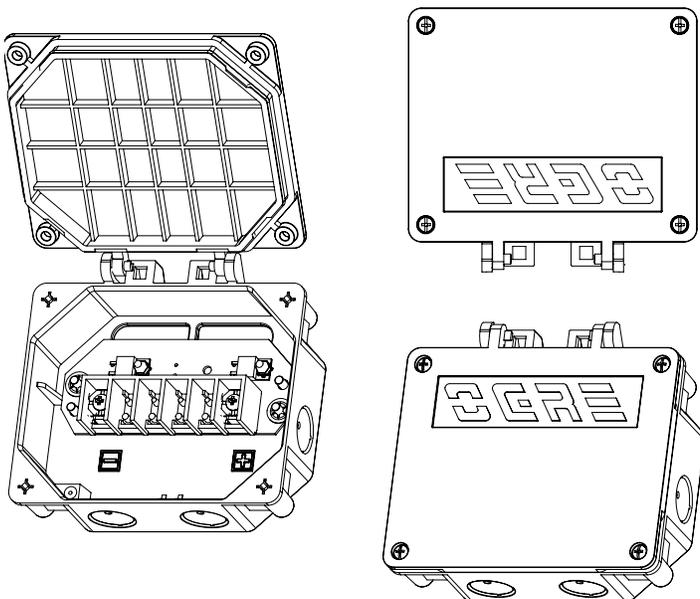
## Certifications

- *FM Approvals:*
  - Class 1, Division 2
  - Groups A, B, C, D
  - Hazardous Locations Type IP65, T5 @ Ta = -40°C to +90°C
- Manufactured in ISO 9001 certified factory

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## Junction Box



## Cross Section

